



CERTIFICATE OF ANALYSIS

STATUS: **RELEASED** REVISION: 00

DATE: 03/04/2021

Analysis ID No. 210560
TDA License No. 2020002
ISO/IEC No. 1055838
Customer No. 20210156
Page No. Page 1 of 5

| CUSTOMER INFORMATION | | SAMPLE INFORMATION | |
|----------------------------------------------------|--|-------------------------------------------------------------|--|
| Company Name: | | Submitted Sample Name: | |
| Prof Whyte Kratom | | K-Plex Kratom Extract Shot, 5 count | |
| Address: | | Submitted Sample Lot: | |
| 9025 NW 53 Manor; Coral Springs, Florida 33067 USA | | Not Provided | |
| Phone Number: | | Submitted Sample Description: | |
| 954-470-1891 | | Beverage in 15 mL Sealed, Amber Glass, Bottle; Stored At RT | |
| Contact Name / Email: | | Submitted Sample Product Type / Matrix: | |
| Kasey Bartholomew / kasey@creatingbetterdays.com | | Kratom Beverage / Liquid | |

| LABEL CLAIM | | | | | |
|-------------------------------------------------------------|-------------|-----------|----------------------------------------------------------------------|--------------------------------|------------------|
| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / Fail |
| Mitragynine | UHPLC-DAD | 0.01 w/w% | mg/mL: Report Only* mg/unit: Report Only** Target: 100 mg/unit | 6.758 mg/mL 101.377 mg/unit | Results Reported |
| Mitragynine | UHPLC-DAD | 0.01 w/w% | % Label Claim: 90.0 to 110.0% Target: 100% | 101.4% | PASS |
| *Solution Density = 1.132 g/mL; **Unit = 15 mL (0.5 Fl. Oz) | | | | | |

| ALKALOIDS ASSAY | | | | | |
|--------------------|-------------|-----------|-------------------------------------------------------------------------------------------|-----------------------------------------|------------------|
| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / Fail |
| Mitragynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only mg/mL: Report Only | 0.597 w/w% 5.970 mg/g 6.758 mg/mL | Results Reported |
| Paynantheine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only mg/mL: Report Only | 0.062 w/w% 0.621 mg/g 0.703 mg/mL | Results Reported |
| Speciogynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only mg/mL: Report Only | 0.031 w/w% 0.305 mg/g 0.346 mg/mL | Results Reported |
| Speciociliatine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only mg/mL: Report Only | 0.053 w/w% 0.526 mg/g 0.596 mg/mL | Results Reported |
| 7-OH-Mitragynine | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only mg/mL: Report Only % Total Alkaloids: NMT 2% | < LOQ | PASS |
| Mitraphylline | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only mg/mL: Report Only | < LOQ | Results Reported |
| Isorhynchophylline | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only mg/mL: Report Only | < LOQ | Results Reported |
| Total Alkaloids | UHPLC-DAD | 0.01 w/w% | w/w%: Report Only mg/g: Report Only mg/mL: Report Only | 0.742 w/w% 7.423 mg/g 8.403 mg/mL | Results Reported |



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Page No. Page 2 of 5

| HEAVY METALS | | | | | |
|--------------|------------------------------|--------|-----------------|--------------|-------------|
| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / Fail |
| Lead | USP <232> <233> by ICP-MS | 10 ppb | NMT 1,000 ppb | < LOQ | PASS |
| Mercury | USP <232> <233> by ICP-MS | 5 ppb | NMT 500 ppb | < LOQ | PASS |
| Cadmium | USP <232> <233> by ICP-MS | 10 ppb | NMT 300 ppb | < LOQ | PASS |
| Arsenic | USP <232> <233> by ICP-MS | 10 ppb | NMT 1,500 ppb | < LOQ | PASS |
| Nickel | USP <232> <233> by ICP-MS | 10 ppb | NMT 200,000 ppb | < LOQ | PASS |

| MICROBIOLOGICAL ASSAY | | | | | |
|----------------------------------|----------------|-------------|-------------------|--------------|-------------|
| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / Fail |
| Total Aerobic Plate Count (TAPC) | Isolation Agar | 20 CFU/gm | NMT 10,000 CFU/gm | < LOQ | PASS |
| Total Yeast & Mold (TYM) | Isolation Agar | 20 CFU/gm | NMT 1,000 CFU/gm | < LOQ | PASS |
| Coliforms | Isolation Agar | 20 CFU/gm | NMT 100 CFU/gm | < LOQ | PASS |
| Escherichia coli (E.coli) | Isolation Agar | 1 CFU/25 gm | Absent in 10 gm | Absent | PASS |
| Salmonella | Isolation Agar | 1 CFU/25 gm | Absent in 25 gm | Absent | PASS |

| RESIDUAL SOLVENTS ASSAY | | | | | |
|-------------------------------|-----------------------|----------|----------------|--------------|-------------|
| Analysis | Test Method | LOQ | Specifications | Test Results | Pass / Fail |
| 1,1-Dichloroethene | USP <467> by GC-MS | 0.4 ppm | NMT 8 ppm | < LOQ | PASS |
| 1,1,1-Trichloroethane | USP <467> by GC-MS | 75 ppm | NMT 1,500 ppm | < LOQ | PASS |
| 1,2-Dichloroethane | USP <467> by GC-MS | 0.25 ppm | NMT 5 ppm | < LOQ | PASS |
| Benzene | USP <467> by GC-MS | 0.1 ppm | NMT 2 ppm | < LOQ | PASS |
| Carbon tetrachloride | USP <467> by GC-MS | 0.2 ppm | NMT 4 ppm | < LOQ | PASS |
| 1,2-dichloroethene (E,Z) | USP <467> by GC-MS | 93.5 ppm | NMT 1870 ppm | < LOQ | PASS |
| 1,2-Dimethoxyethane | USP <467> by GC-MS | 5 ppm | NMT 100 ppm | < LOQ | PASS |
| 1,2,3,4-tetrahydronaphthalene | USP <467> by GC-MS | 5 ppm | NMT 100 ppm | < LOQ | PASS |
| 1,4-Dioxane | USP <467> by GC-MS | 19 ppm | NMT 380 ppm | < LOQ | PASS |
| 2-Hexanone | USP <467> by GC-MS | 2.5 ppm | NMT 50 ppm | < LOQ | PASS |
| 4-methyl-2-pentanone | USP <467> by GC-MS | 225 ppm | NMT 4,500 ppm | < LOQ | PASS |
| Acetonitrile | USP <467> by GC-MS | 20.5 ppm | NMT 410 ppm | < LOQ | PASS |

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Page No. Page 3 of 5

| | | | | | |
|---------------------|-----------------------|-----------|---------------|-------|------|
| Chlorobenzene | USP <467> by GC-MS | 18 ppm | NMT 360 ppm | < LOQ | PASS |
| Chloroform | USP <467> by GC-MS | 3 ppm | NMT 60 ppm | < LOQ | PASS |
| Cumene | USP <467> by GC-MS | 3.5 ppm | NMT 70 ppm | < LOQ | PASS |
| Cyclohexane | USP <467> by GC-MS | 194 ppm | NMT 3,880 ppm | < LOQ | PASS |
| Dichloromethane | USP <467> by GC-MS | 30 ppm | NMT 600 ppm | < LOQ | PASS |
| Ethylbenzene | USP <467> by GC-MS | 108.5 ppm | NMT 2,170 ppm | < LOQ | PASS |
| Hexane, n- | USP <467> by GC-MS | 14.5 ppm | NMT 290 ppm | < LOQ | PASS |
| Methanol | USP <467> by GC-MS | 150 ppm | NMT 3,000 ppm | < LOQ | PASS |
| Methylcyclohexane | USP <467> by GC-MS | 59 ppm | NMT 1,180 ppm | < LOQ | PASS |
| Nitromethane | USP <467> by GC-MS | 2.5 ppm | NMT 50 ppm | < LOQ | PASS |
| Pyridine | USP <467> by GC-MS | 10 ppm | NMT 200 ppm | < LOQ | PASS |
| Tetrahydrofuran | USP <467> by GC-MS | 36 ppm | NMT 720 ppm | < LOQ | PASS |
| Toluene | USP <467> by GC-MS | 44.5 ppm | NMT 890 ppm | < LOQ | PASS |
| Trichloroethene | USP <467> by GC-MS | 4 ppm | NMT 80 ppm | < LOQ | PASS |
| Xylene, m- | USP <467> by GC-MS | 108.5 ppm | NMT 2,170 ppm | < LOQ | PASS |
| Xylene, o- | USP <467> by GC-MS | 108.5 ppm | NMT 2,170 ppm | < LOQ | PASS |
| Xylene, p- | USP <467> by GC-MS | 108.5 ppm | NMT 2,170 ppm | < LOQ | PASS |
| 1-Butanol | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| 1-Pentanol | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| 1-Propanol | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| 2-Butanol | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| 2-Butanone | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| 2-methyl-1-propanol | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| 2-Propanol | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| 3-methyl-1-butanol | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Acetone | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Anisole | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |

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 Page No. Page 4 of 5

| | | | | | |
|-----------------------|-----------------------|---------|---------------|-------|------|
| Butyl acetate | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Ethanol | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Ethyl acetate | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Ethyl ether | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Ethyl formate | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Heptane, n- | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Isobutyl acetate | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Isopropyl acetate | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Methyl acetate | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| N,N-Dimethylsulfoxide | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Pentane, n- | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Propyl acetate | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| t-Butyl Methyl Ether | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Butane, iso- | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Butane, n- | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |
| Propane | USP <467> by GC-MS | 250 ppm | NMT 5,000 ppm | < LOQ | PASS |

| TESTING FACILITY INFORMATION | SAMPLE INFORMATION |
|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Santé Laboratories 8201 East Riverside Drive, STE 650 Austin, Texas 78744 USA | Santé Sample ID: 210560 Receipt Date: 02/25/2021 / 3:30 PM CST / S. ORTEGA Receipt Condition: Good Analysis Start Date: 02/25/2020 |

| ADDITIONAL REPORT NOTES | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| The reported results presented in this document is only applicable to samples submitted to Santé Laboratories for testing and may not represent the entire lot and/or batch produced by the manufacturer. *Microbiological specifications follow AHPA guidelines for botanical extracts. ©2020 Santé Laboratories, LLC – All Rights Reserved | |

| VERSION HISTORY | | |
|-----------------|----------------|--------------------|
| Version | Effective Date | Summary of Changes |
| 00 | 03/04/2020 | Initial Release |

| REVIEWED AND APPROVED BY | | | |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------|----------|
| DocuSigned by: |  | 3/4/2021 | DD-MM-YY |
| Brian Sloat, Ph.D. Chief Scientific Officer / Quality Manager Santé Laboratories | 1DA7605D05C740D... | Date | |

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Page No. Page 5 of 5

PRODUCT SAMPLE / IMAGE

